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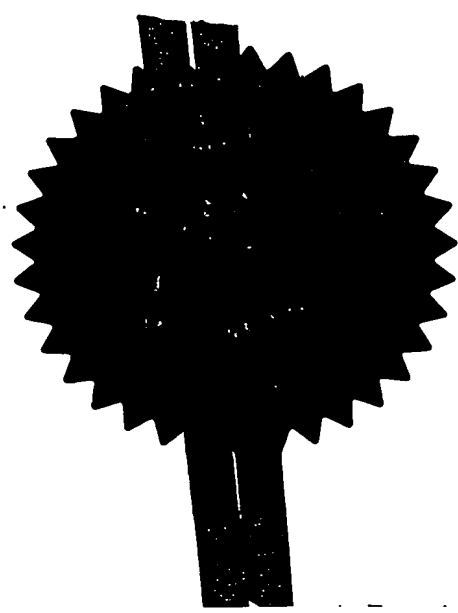
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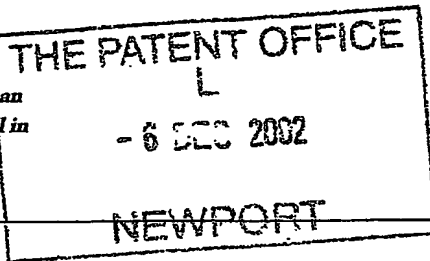
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1. Your reference

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2. Patent application number

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0228494.1

3. Full name, address and postcode of the or of each applicant (underline all surnames)

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8522161001

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention

DOG TRANSPORT & EXERCISING HARNESS & COAT.

5. Name of your agent (if you have one)

N/A

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Patents ADP number (if you know it)

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

N/A

Country

Priority application number
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Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

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8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

N/A

a) any applicant named in part 3 is not an inventor, or

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c) any named applicant is a corporate body.

See note (d))

Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description PCS 2-4

Claim(s) PCS 5-8

Abstract PG 9

Drawing(s) PCS 10-18

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

Contents Page

11. I/~~we~~ request the grant of a patent on the basis of this application.

Signature

Date

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07977-290353

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DUPLICATE

CONTENTS PAGE

Pg 1 -	Contents Page
Pg 2 - 4 -	Description, including drawings referred to
Pg 5 -8	Claims
Pg 9	Abstract
Pg 10 - 18	Drawings

DESCRIPTION – (Including Drawings Referred To)

DOG TRANSPORT & EXERCISING HARNESS & COAT

- 1 The invention relates to a dog travel & exercise harness, which is fully adjustable, conveniently fitted (& removed) from the dog & car, and has an easily removable & washable weather protective coat. The harness is more suited to the rear seat of the car, although the front car seat can be used for smaller or medium sized dogs. This is dependant on the size of the dog & car.
- 2 - Other types of dog harness are reasonably well known, but do not offer an equivalent safety or restraint for the dog during travel to that normally available to human passengers. This harness overcomes this problem making travel safer for the dog & passengers.
- 3 The object of the invention is to provide a fully adjustable dog harness with a main purpose being to provide safe travel for the dog & car passengers. It is also suitable for exercising a dog without using a conventional neck collar. The harness also offers an adjustable, easily attached cotton lined weather proof coat.
- 4 It is known that dogs are frequently injured when being transported by a motor vehicle. This may be during driving, braking, cornering or during a collision. It is also known than an unrestrained dog of any size can cause significant and often fatal injuries to itself or anyone else in the vehicle. Many of these injuries take the form of impact injuries, & non restraint injuries, or non-restraint injuries caused by badly fitted &/or poorly designed restraints. The above are problems, which are significantly reduced by using this type of dog harness as a means of restraint during travel.

The essential feature of the harness is:

- i) The rearward restraining action, which reduces pressure on the dogs neck & spine. This rearward action on the harness is caused by the natural movement or braking of the car, see figures 1,3 & 4 for drawings forming part of this description. It also restrains the dog in a similar way (i.e. reducing pressure on the neck) during exercise. See figure 2 for a drawing forming part of the description.
 - ii) the dog will be pulled to a sitting or lying position on the car seat to limit potential injury to the dog &/or other car passengers. See figures 1,3,4.
- 5 Preferably the harness will be made of a strong light weight durable webbed nylon or leather material with quick release clips for convenience.

Figure 1 – Shows a complete view of the harness with all seat attachments if

viewed from a side view, from the car door if the dog is standing in a car. Also showing the nylon side arms (fig 1.9), which attach using clips (fig 1.8a&b), to metal rings (fig 1.7a&b) on the circular seat belt and harness.

Figure 2 – Shows the harness from a side view of the dog standing. The central ring is used to exercise the dog (fig 2.8). The rearward restraining action of the harness is not the same as if in a car, but the back pulling action exists in a different way, but still reduces pressure on the neck. If an up pulling action is used the dog will be supported if ill or weak.

Figure 3 – Shows the dog from a side view sitting on the car seat, viewed across the car from side door to side door. The animal is seen to have restricted movement.

Figure 4 – Shows a side view across the car from side door to side door, of the dog lying on the car seat. The dog is in the position that it would be when the harness takes effect in more extreme instances such as heavy braking.

Figure 5 – Shows the harness from the underside of the dog. The chest strap (fig 5.3), assists the side straps (fig 5.5 a&b), and clips (fig 5.6), and metal ring (fig 5.7) in the rearward restraining action by reducing pressure on the neck and spine and transferring force to the nylon arms (fig 4.9 a&b) of the harness.

Figure 6 – Shows the circular car seat belt (fig 6.5), chair attachments comprising of nylon straps (fig 6.4 a&b) supporting free moving metal attachment rings (fig 6.3 a&b), & attachment arms (fig 6.2 a&b), which connect to the free moving metal rings (fig 5.7) using light weight metal quick release clips (fig 6.1 a,b,c,&d). The clips attach (fig 6.1 a,b,c &d) on both ends of the nylon arms to the circular seat belt (fig 6.5) and side rings on the dogs harness (fig 5.7). The original car seat belt can be secured over the circular seat belt as seen in figure 6.6 for additional security and safety. The action of the harness will not be affected in any way, if the user decides to include use of the original car seat belt for additional security.

Figure 7 – Shows the cotton lined weatherproof coat if laid out flat. The velcro attaches to the under side of the top body strap (see figure 9.9a,b,c &d). This allows the coat to be held securely in place and prevents the coat slipping, which is often seen in other coats for dogs. The velcro has a sufficient width to allow the coat length to be adjusted (fig 7.4 a - f) to fit various dog sizes & shapes in one size category. The coat has a slit so any excess length of coat for

smaller dogs in a category can be folded over the top body strap of the harness (fig 2.7). This way the coat will fit many dogs in a size category, & not affect the pulling action of the harness as the exercise ring is accessible (fig 8.11).

The strong elastic strap on the coat is fixed below the rib cage (fig 8.10) on the underside of the dog. Press studs are situated on either end of the elastic strap, so the strap can adjust to fit many different sized dogs in a size category, thereby allowing the coat to be secured for a correct fit. This also limits the amount the coat will slip when the dog moves. This strap (fig 7.7) offers a more secure fit than other conventional dog coats, which often slip as they are not securely fitted. The strap moves to adjust in accordance with the length of the dog. The press studs (fig 7.8 a-h) are easy to reach as they are on the out side of the coat and on the side of the dog.

Figure 8 – Shows from a side view, the excess length of the coat folded back (fig 8.7) over the top body strap (fig 8.4) of the harness. The zip along the centre of the coat (fig 7.2) allows the central exercise ring to be reached. As the harness retains a very similar size to its original fitting, occasional adjustment is required. A zip is included in the slit to close the slit if it is not required, thereby providing a fully adjustable, cotton lined weather proof coat.

Figure 10 - Shows the harness laid out & flat, with all the quick release clips undone. When the harness is fitted, its' size remains very similar, see figure 1, so occasional adjustment is required. The neck strap (fig 9.1) can remain closed all the time. This is because it is a loose fitting neck strap, which can be slipped over the dogs neck. This means only the 2 side quick release clips (fig 5a -d) need to be closed. Therefore making the harness quick and easy to put on & remove once it has been correctly fitted to the dog.

CLAIMS.

- 1 - The invention is a harness restrains and supports a dog during car travel and exercise. It comprises four nylon straps. These straps may be bare nylon, or padded for comfort.
- 2 - The car travel exercise harness consists of webbed nylon straps, which attach together by quick release clips. See fig 9.2 a & b, and fig 9.7 a & 9.5b & fig 9.7 b & 9.5 a.
- 3 - The harness offers continual support & security whenever it is needed during vehicle transport. This is because the restraining harness works in accordance with the dog & cars movement, in all situations such as cornering, reversing, gear changing and braking. Thus preventing the dog moving against or coming into severe contact with the car or passengers, and preventing injury to the dog itself. See figures 1,3,4.
- 4 - The harness is a safer means to exercise a dog from the stand point of the dogs welfare. This is because pressure is reduced from the dogs neck, throat and spine. The harness offers control over the animal in a less directly constrictive way than existing harnesses. See figure 2.
- 5 - The complete harness and coat is machine washable, light weight and durable. It will adjust to fit different sized and shaped dogs within a size category. See fig 7.
- 6 - The harness also aids support of elderly or unwell dogs during light

exercise, using the same back ward pulling action when using the central exercise ring which is situated between the dogs shoulders, as seen in figure 2.

- 7- A cotton lined weather-proof coat is easily attached using velcro to the underside of the top body strap of the harness, see fig 9.9. The coat has a lengths of velcro on the out side of the length of the coat See figs 8.4 a-f. The harness therefore fits many lengths of dog. It also has a slit with a zip, see fig 7.2. This allows the coat to be folded back over the top body strap as seen in figure 8.7. The elastic body strap of the coat, see fig 8.10 attaches below the rib cage using press studs, see fig 8.9a-h. Allowing the length of the coat to be adjusted to the dogs length.
- 8 -Adjustment to ensure the dogs safety may include adjusting the car seat, see fig 1, and the back of the car seat (fig 1.11). The harness circular seat belt is to be positioned far enough above the dogs back to allow the dog to move, whilst being restrained far enough away from a front car seat, or dash board. See fig 1,3,4. A larger dog would require the rear circular seat belt (fig 1.11) to be positioned higher up the back of the car seat as seen in fig 1.12 & 1.13.
- 9 The dog will not be forced into the front seat (if on the back car seat) by rapid deceleration on recovery of the cars movement, providing the harness is correctly fitted to ensure the dog cannot come into contact with objects in front of the dog e.g. car seats, or dash board. See fig 4 & 4.11.
- 10 The correctly fitted harness (achieved by claims 8 & 9) will pull the dog into a sitting or lying position. See figs 3 & 4. The diagrams show a smaller sized dog. Larger dogs require the seat strap to be higher up the rear of the car seat to prevent the dog colliding with e.g. the dash board or front car seat.

- 11 The neck strap (fig 1.1) is loose fitting to allow pressure to be reduced on the neck and spine. The pressure dissipates through the harness, not the dogs vital organs or bone structure. Se fig 1.1.
- 12 The chest strap of the harness (fig 5.3), pulls the neck strap down (fig 5.1) and backwards, so pressure on the neck and spine is reduced.
- 13 The dog will fall in either of the positions explained in claim 19 as even rearward restraining action is achieved through the chest strap (fig 5.3) and side straps (fig 6.2 a & b), and metal side rings (fig 5.7), situated on the quick release clips (fig 5.7) on the side of the dogs body straps (fig 2.4 & 2.5) which are evenly positioned on the left & right of the harness.
- 14 The harness has side ring attachments, see figs 1.7a-d, which connect to supporting nylon arms, see fig 6.2a & b, which connect to a separate seat belt, see fig 6.5, using clips on either end, see fig 6.1a-d. The car seat belt can be secured over the harness' circular seat belt for additional security. See fig 6.6
- 15 The side straps, see fig 6.2 a & b and ring attachments (fig 5.7) of the provide the main safety feature. The dog is restrained by two nylon arms (fig 6.2 a & b) which distribute even pressure using a rearward restraining action which works in accordance with the forward motion of the dog (fig 1,3,4) .

16 - Restraint is also applied as the nylon rings 4.10 a & b, only allow the dog a maximum distance of movement equivalent to the chair width the dog is on.

17 -The restraint of the harness is achieved by a rearward restraining action from the harness against the forward motion of the dog, when standing, sitting, lying or moving. A natural balance is achieved which creates a support to allow the dog to recover by being forced into a standing or prone position according to the direction of the braking or accelerating forces of the vehicle or application of the handler during exercise, therefore giving the animal reasonable comfort & freedom.
See figures 1 - 4.

18 - The nylon arms (fig 4.9 a & b) provide the means to achieve this balance between the harness and the dogs weight. Also when the dog moves, as the nylon rings (fig 4.10), which hold the metal rings (fig 4.7 b & d), that attach to the nylon arms (fig 4.9) can move freely along the circular seat belt, as seen in figures 4 & 6.

19 - The pressure on the harness & its rearward restraining action supports the dog as the dog cannot always support itself. It causes the dog to absorb the movement of the vehicle by being forced into a standing position (fig 1), a sitting position (fig 3), or a lying position, (fig 4), usually with the dogs head and front legs slightly over the front of the seat to prevent injury from a dashboard or front car seat if in the back of the car. See figure 1,3 & 4.

ABSTRACT
DOG TRANSPORT & EXERCISE HARNESS & COAT

A dog harness with side attachment rings, attach to adjustable arms with clips on either end, which attach to the harness & belt fixing around the back of the seat (car seat belt can be included).

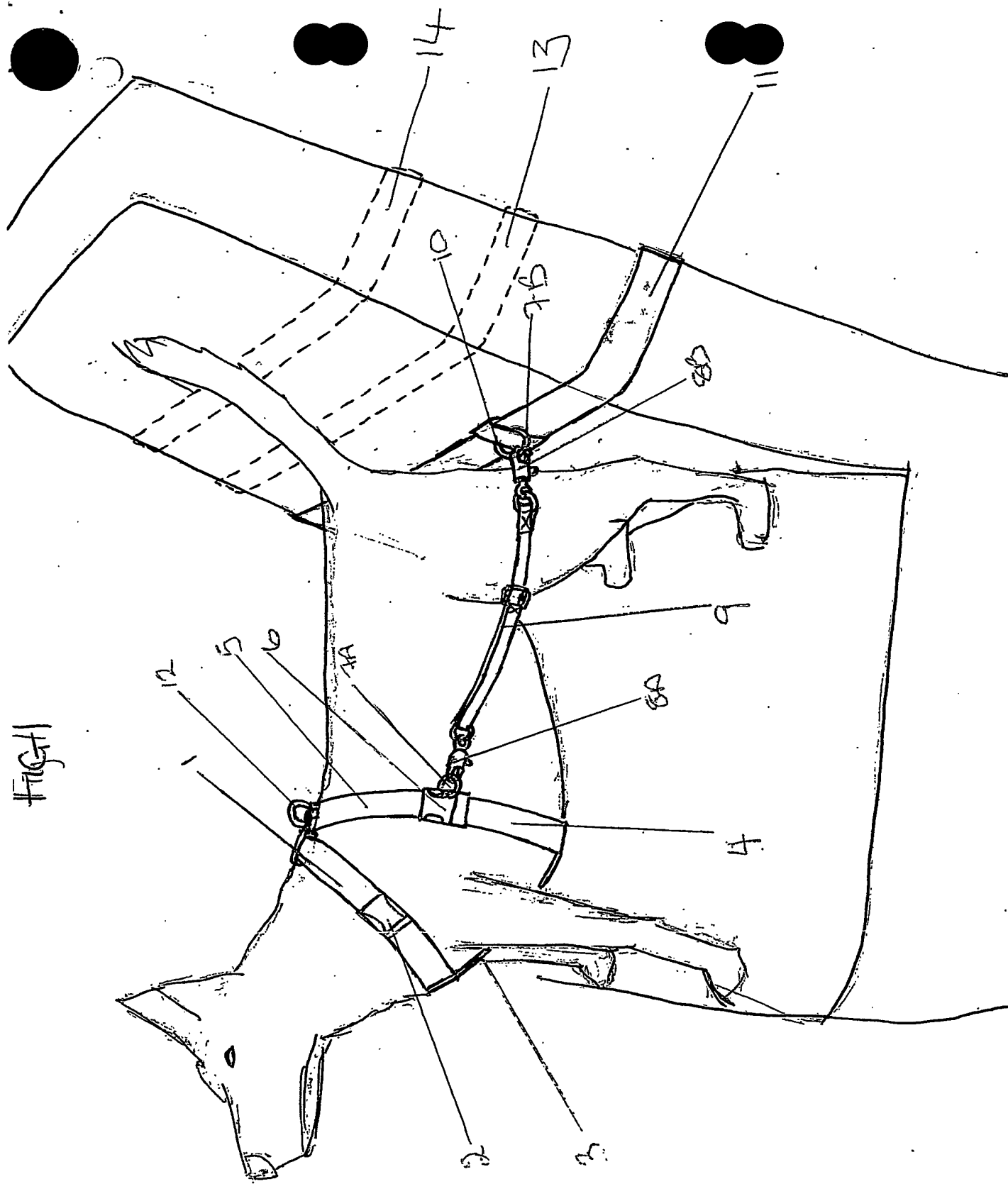
The harness invention allows restricted movement so the dog is comfortable & not held rigidly in one position. When braking, the harness reduces pressure on the spine & neck. Pressure is transferred to the harnesses' arms, seat & chest strap, lessening potential injury to the dogs neck, spine & abdomen.

A lead attaches to the centre ring for exercising. This distributes pressure away from the neck when pulling or restraining the dog.

A coat attaches to velcro on the underside of the harness below the neck strap. A fully adjustable strong elastic strap fixes below the dogs rib cage using press studs, holding the coat in place fitting various dogs within a size category. 149



FIG. 1

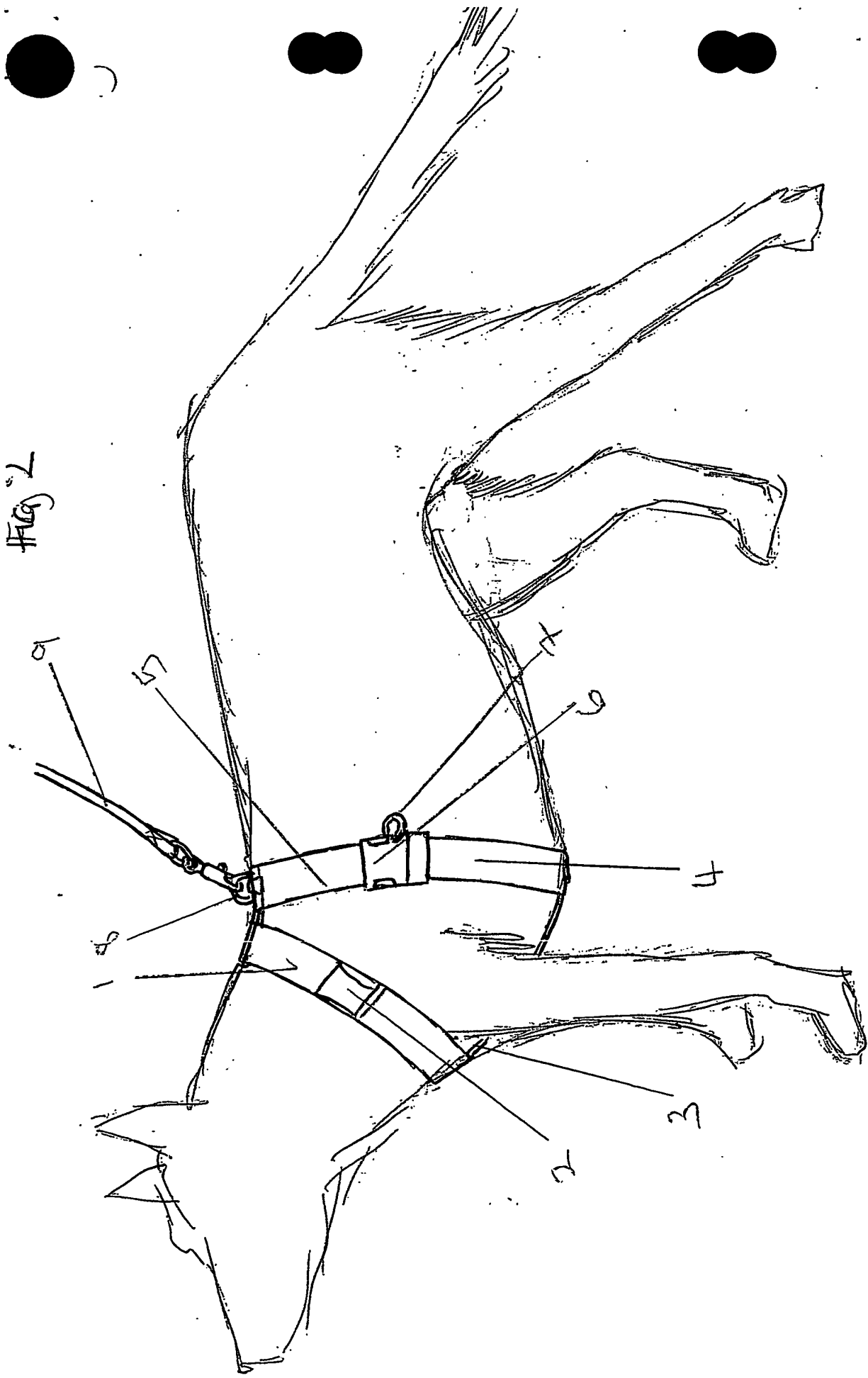


- ADJUSTABLE NECK STRAP.
- 2 - QUICK RELEASE CLIP - NECK
- 3 - ADJUSTABLE UNDER BODY CHEST STRAP
- 4 - ADJUSTABLE UNDER BODY SIDE STRAP
- 5 - ADJUSTABLE OVERBODY SIDE STRAP
- 6 - QUICK RELEASE CLIP - SIDE OF BODY, LBS NOT SEEN HERE.
- 7 - SIDE ATTACHMENT RINGS FOR ATTACHMENT ARMS.
- 8 - METAL ATTACHMENT CLIPS.
- 9 - ADJUSTABLE NYLON ARMS
- 5 - FREE MOUNT NYLON SUPPORT FOR METAL RING ATTACHMENT.
- 1 - NYLON CIRCULAR SEAT^{BEAT} HEIGHT OF DOG TO ACCORD WITH THE POSITION OF THE CIRCULAR SEAT BELT.
- 2 - METAL EXERCISE RING.
- 14 - CIRCULAR SEAT BELT POSITIONED FOR VARIOUS DOGS.

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NOT TO BE AMENDED

Fig. 2



1- ADJUSTABLE NECK STRAP

2- QUICK RELEASE CUP - NECK.

3.- ADJUSTABLE UNDER BODY CHEST STRAP.

4- ADJUSTABLE UNDER BODY SIDE STRAP

5- ADJUSTABLE OVER BODY SIDE STRAP

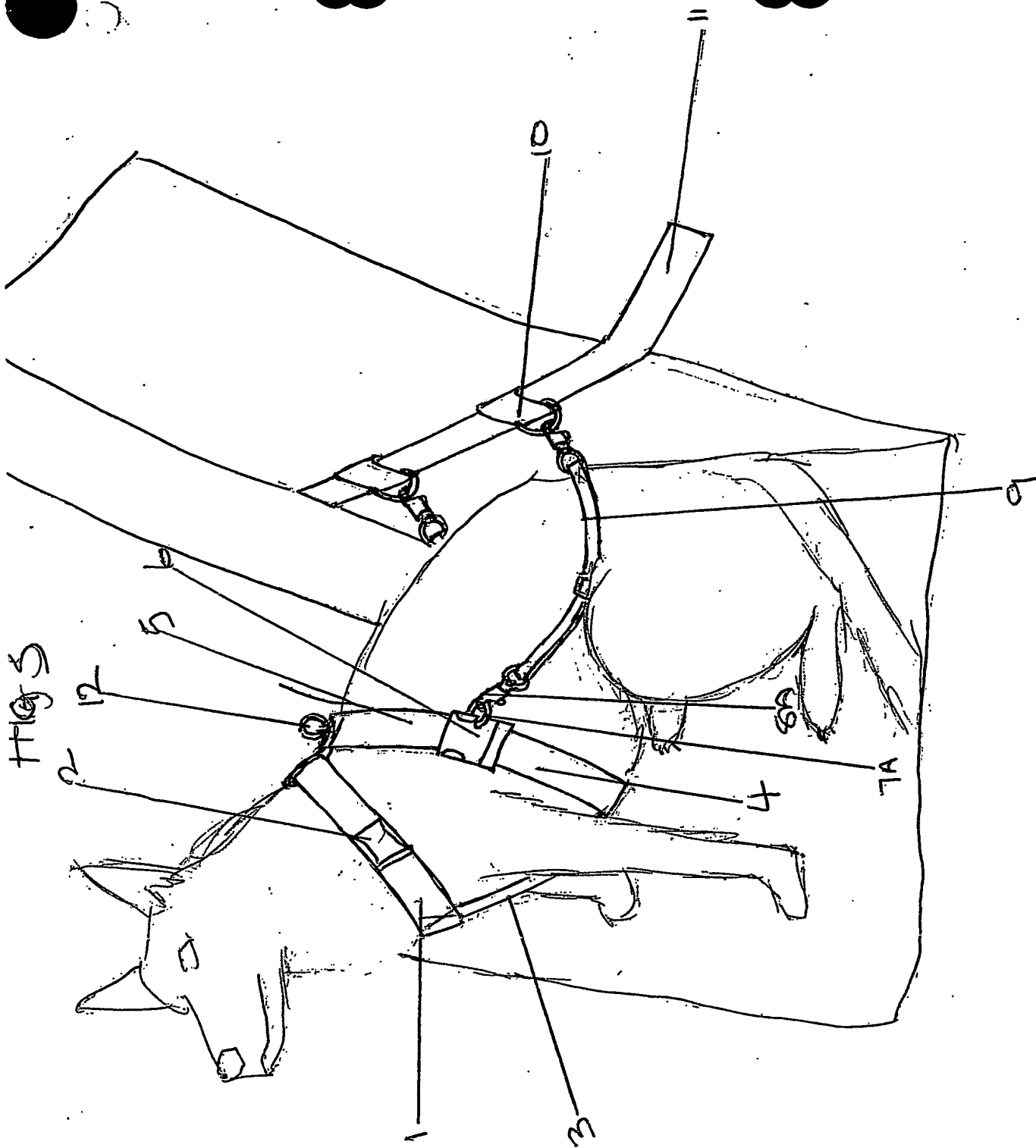
6- QUICK RELEASE CUP - SIDE OF BODY

7- SIDE ATTACHMENT RINGS, for nylon ATTACHMENT RINGS.

8- METAL RING, used for EXERCISING

9- EXERCISE LEAD - (NOT INCLUDED AS PART of HARNESS)

NOT TO BE AMENDED

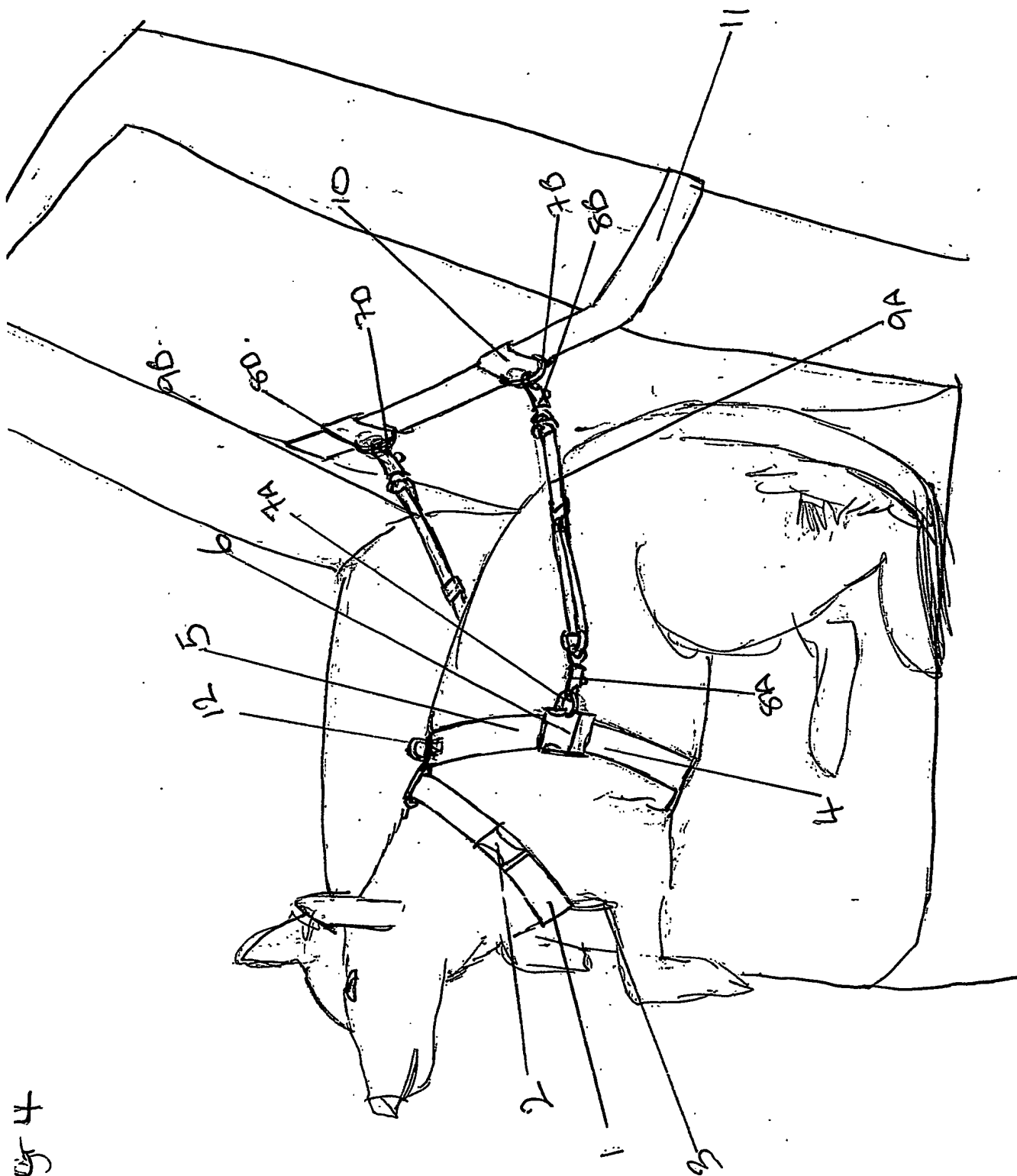


- 1 - ADJUSTABLE NECK STRAP
- 2 - QUICK RELEASE CUP - NECK.
- 3 - ADJUSTABLE UNDER BODY CHEST STRAP
- 4 - ADJUSTABLE UNDER BODY SIDE STRAP
- 5 - ADJUSTABLE OVER BODY SIDE STRAP
- 6 - QUICK RELEASE CUP - SIDE OF BODY.
- 1A - METAL ATTACHMENT RING - (THIS NOT SEEN HERE)
- 8A - METAL ATTACHMENT CUPS - ~~8A NOT SEEN HERE~~
- 9 - SUPPORTING NYLON ARMS.
- 10 - FREE MOVING NYLON SUPPORT FOR METAL RING ATTACHMENT.
- 11 - CIRCULAR ONE SEAT BELT.
- 12 - METAL EXTENDING RING

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Fig 4



- 1 - MAXIMUM NECK STIFF
- 2 - QUICK RELEASE CLIP - NECK.
- 3 - ADJUSTABLE UNDER BODY CHEST STRAP
- 4 - ADJUSTABLE UNDER BODY SIDE STRAP
- 5 - ADJUSTABLE OVER BODY SIDE STRAP.
- 6 - QUICK RELEASE CLIP - SIDE OF BODY
- 7A-D - METAL ATTACHMENT RINGS - 7C NOT SEEN HERE.
- 8A-D - METAL ATTACHMENT CLIPS - 8C NOT SEEN HERE.
- 1 - SUPPORTING NYLON ARMS
- 2 - FREE MOVING NYLON SUPPORT FOR METAL RING ATTACHMENT.
- 1 - CIRCULAR SEAT BOLT -
- 2 - METAL EXERCISE RING.

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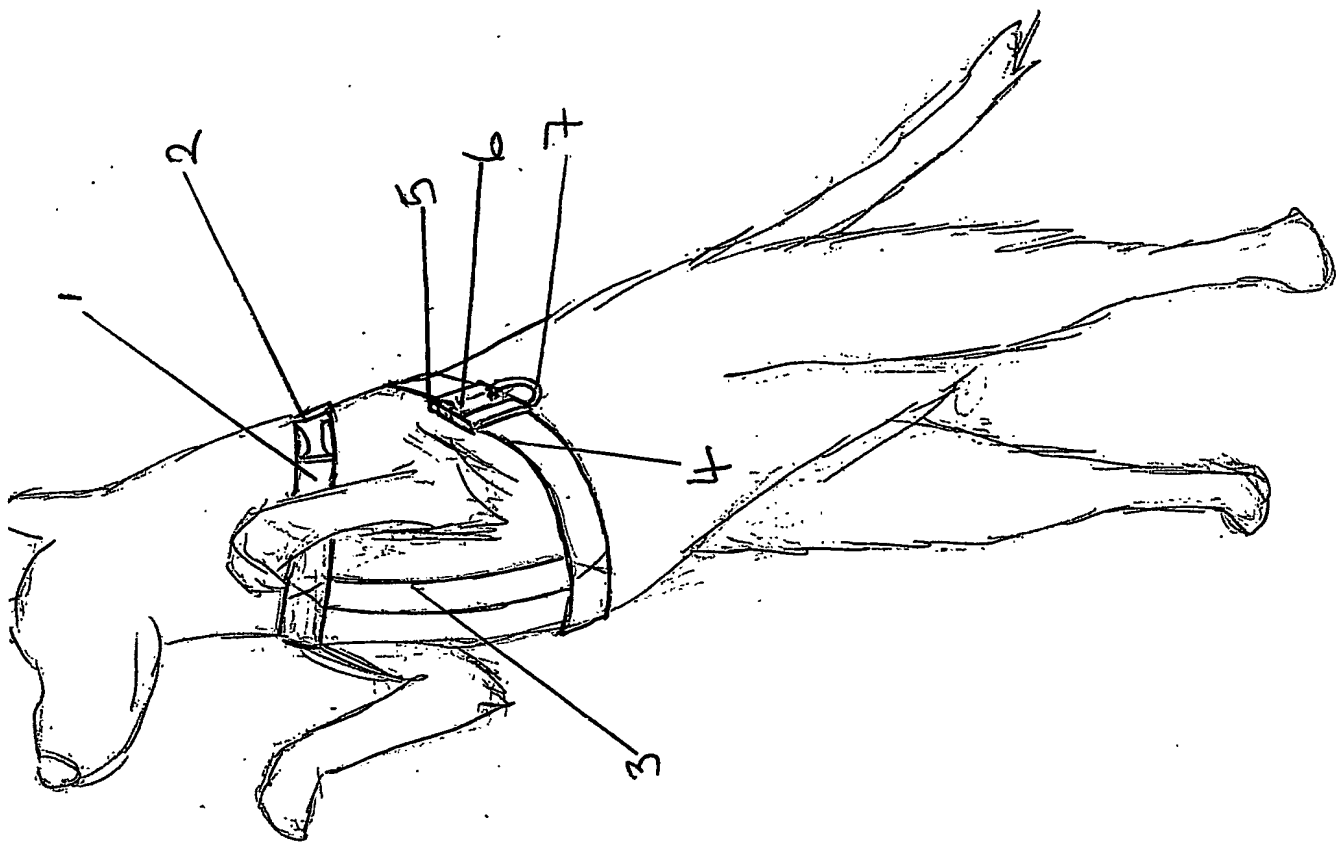
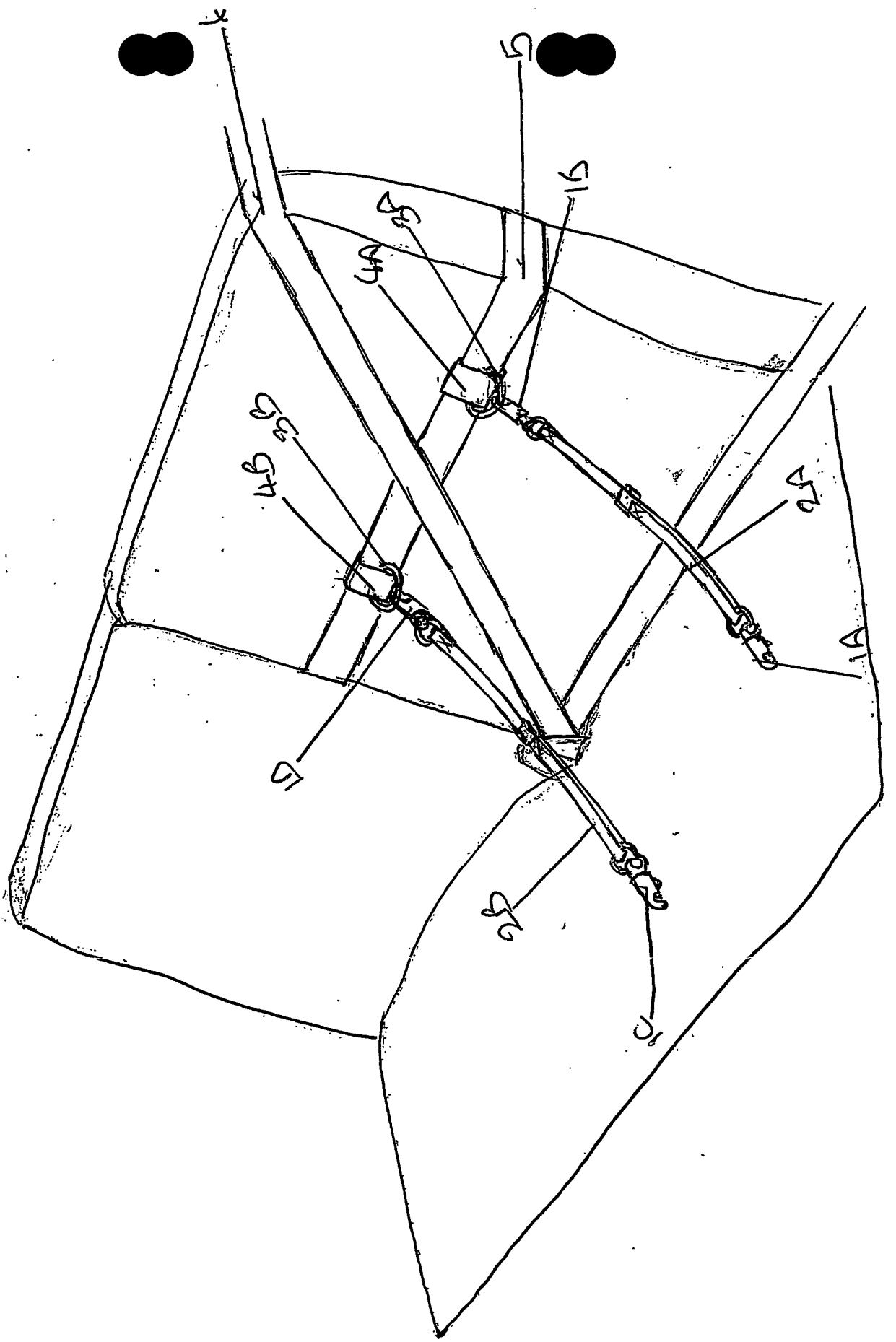


Fig 5

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- ADJUSTABLE NECK STRAP
- QUICK RELEASE CLIP - NECK
- ADJUSTABLE UNDER BODY CHEST STRAP
- ADJUSTABLE UNDER BODY SIDE STRAP
- ADJUSTABLE OVER BODY SIDE STRAP
- QUICK RELEASE CLIPS - SIDE OF BODY
- METAL ATTACHMENT RING

NOT TO BE AMENDED

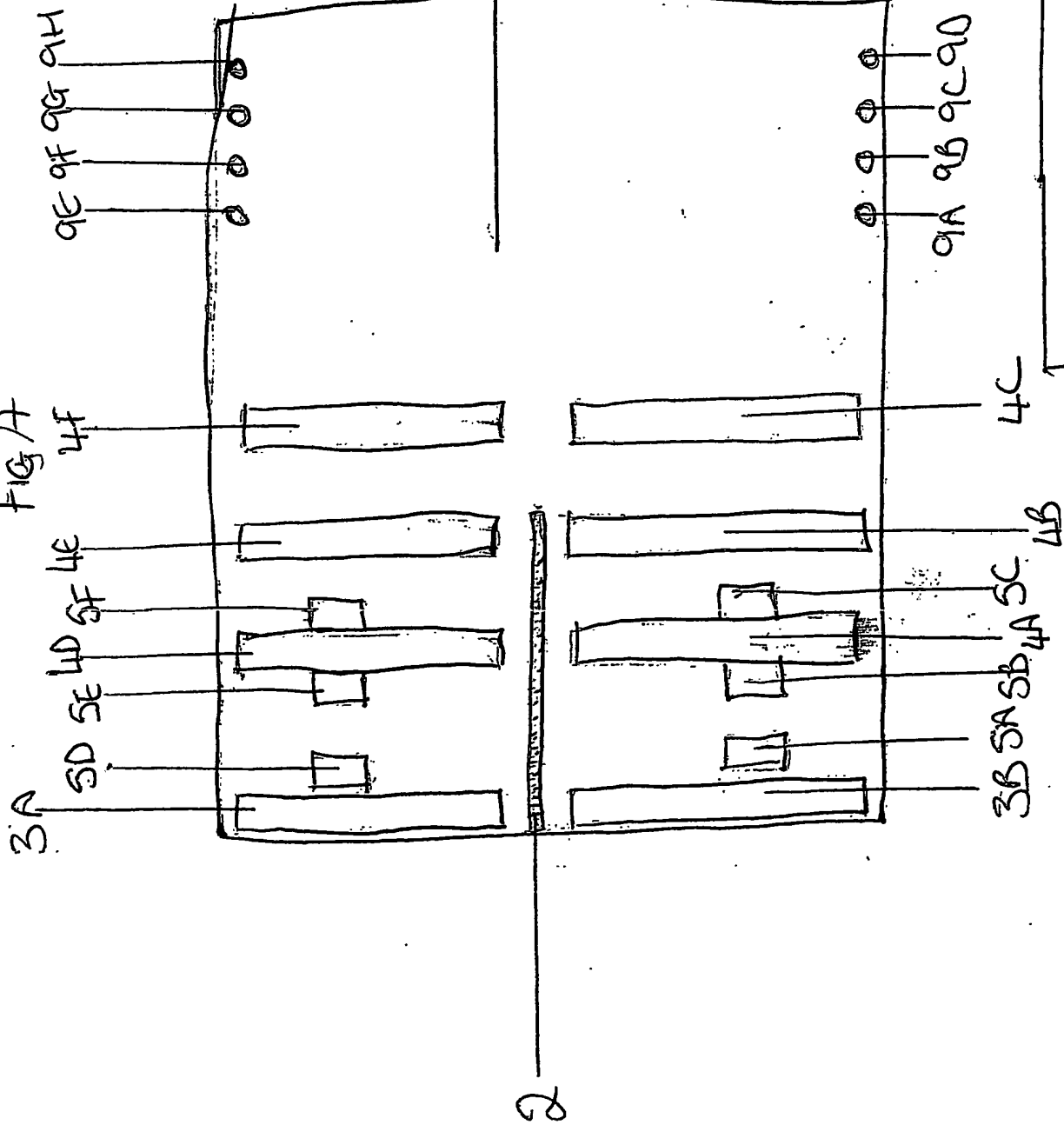


- 1A+D - METAL ATTACHMENT CLIPS.
- 2A+B - SUPPORTING NYLON ARMS.
- 3A+B - METAL ATTACHMENT RINGS.
- 4A+B - FREE MOUNTING NYLON SUPPORTS FOR METAL RINGS.
- 5 - CIRCULAR SEAT BELT
- 6 - CAR SEAT BELT - OPTIONAL.

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FIG 7A



1- COAT

2- ZIP

A-B- VELCRO -SMOOTH EDGE

A-F- VELCRO - ROUGH EDGE TO ALLOW LENGTH OF COAT TO BE ADJUSTED.

D- MAKES TO ALLOW SIDE ATTACHMENT RINGS TO BE ACCESSED,
THEREBY ALLOWING THE COAT TO BE USED DURING TRAVEL.

A-H- PRESS STUDS, LOCATED ON OUTSIDE OF COAT FOR THE NYLON
STRAP TO ATTACH BELOW THE RUB CAGE.

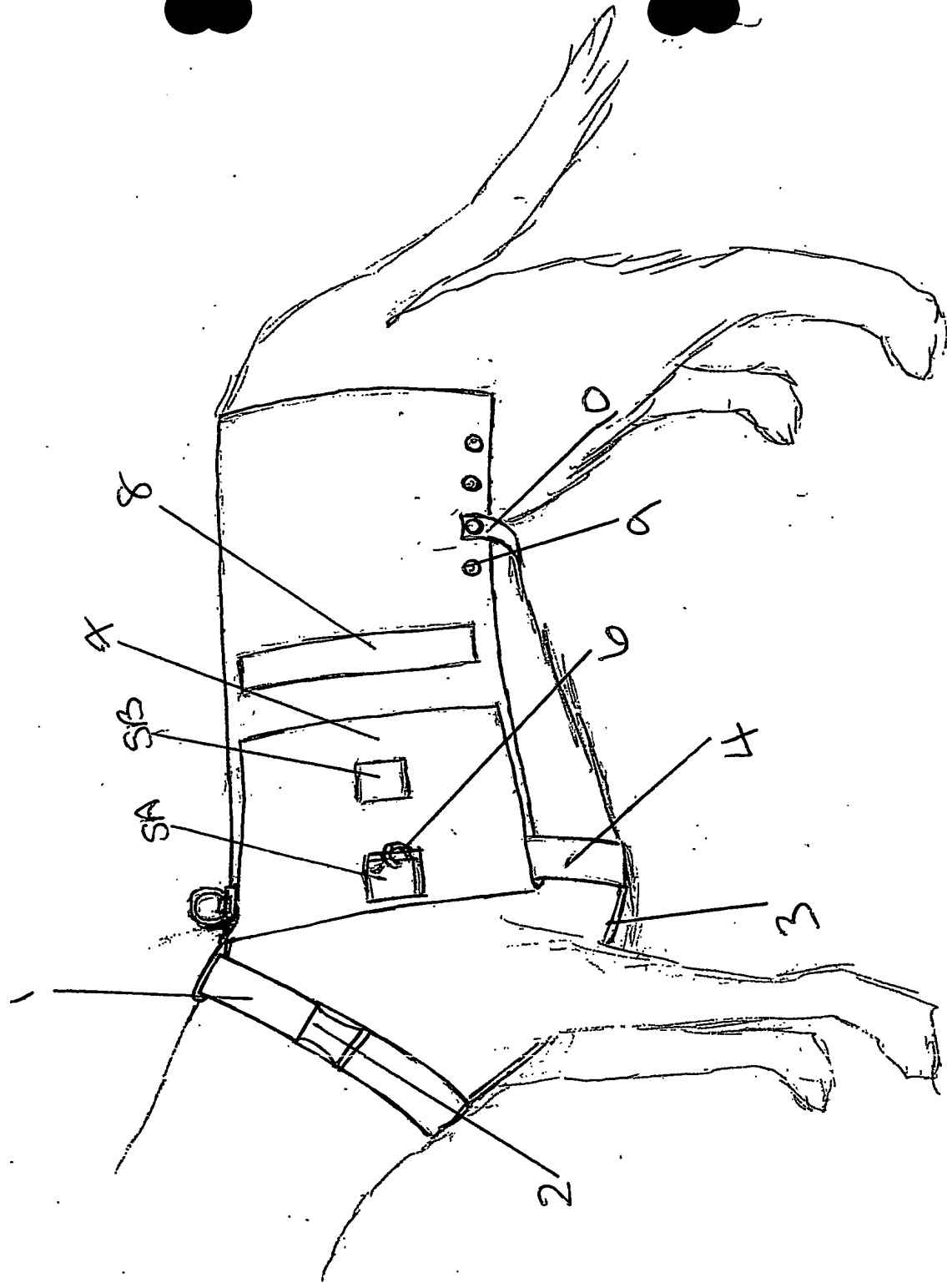
F- STRONG ELASTIC UNDER BODY STRAP TO ATTACH TO (Q 134) THE
PRESS STUDS, LOCATED BELOW THE RUB CAGE.

S- PRESS STUDS LOCATED AT EITHER END OF THE ELASTIC REAR
BODY STRAP

1A-H- PRESS STUDS ON COAT.

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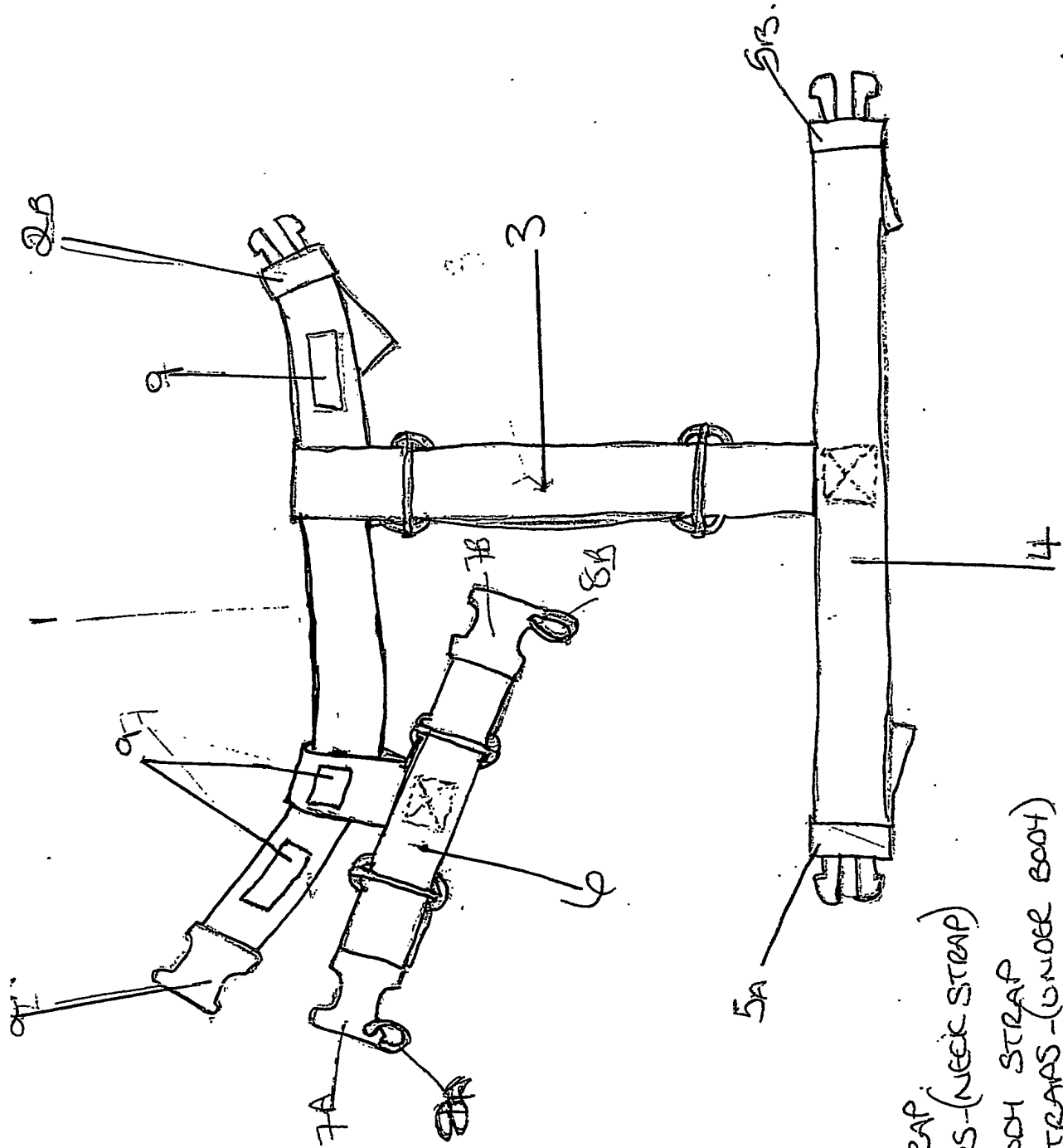
Fig. 8



- 1- ADJUSTABLE NECK STRAP
- 2- PLUCK RELEASE CUP - NECK.
- 3- ADJUSTABLE UNDER BODY CHEST STRAP.
- 4- ADJUSTABLE ^{UNDER} ~~OVER~~ BODY STRAP
- 5- HOLE IN COAT TO ALLOW SIDE ATTACHMENT RING TO BE REACHED.
- 6- SIDE ATTACHMENT RING
- 7- EXCESS COAT FOLDED BACK.
- 8- VEHICLE (LEAD SIDE) FOR LENGTH ADJUSTMENT OF COAT.
- 9- PRESS STUDS.
- 10- STANCH ELASTIC LOWER BODY STRAP TO BE ATTACHED BEHIND RIB CAGE.
- 11- METAL EXERCISE RING.

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- 1 - ADJUSTABLE NECK STRAP
- 2 - QUICK RELEASE CLIPS (NECK STRAP)
- 3 - ADJUSTABLE UNDER BODY STRAP
- 4 - ADJUSTABLE SIDE STRAPS (UNDER BODY)
- 5A - QUICK RELEASE CLIPS (SEE NO 2)
- 5B - ADJUSTABLE BODY STRAPS (OVER BODY)
- 6 - QUICK RELEASE CLIPS (SEE NO 2)
- 7A - ATTACHMENT RINGS (FOR ATTACHMENT ARMS)
- 7B - VELCRO - COAT ATTACHMENTS

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